

## **GUIDELINE SUMMARY TABLE**

Table 1. B.C. water quality guidelines for drinking water sources.

<b>Parameter<sup>1</sup></b>	<b>Maximum Allowable Concentration (MAC)</b>	<b>Aesthetic Objective (AO)</b>	<b>Guideline Source</b>	<b>2017 Update</b>
Aluminum	9.5 mg/L	N/A	ENV 2010	Increased from Health Canada's operational treatment guideline of 0.2 mg/L to the B.C. Land Remediation interim water standard.
Arsenic	0.01 mg/L	N/A	Health Canada 2006a	Decreased from 0.025 mg/L
Benzene	0.005 mg/L	N/A	Health Canada 2009a	No change
Benzo[a]pyrene	0.000 01 mg/L	N/A	Health Canada 1988	No change
Boron	5.0 mg/L	N/A	ENV 2003a	No change
Cadmium	0.005 mg/L	N/A	Health Canada 1986a	New for DW use in B.C.
Chlorate	1.0 mg/L	N/A	Health Canada 2008	No change
Chloride	N/A	250 mg/L	Health Canada 1987a	No change
<b>Chlorophenols:</b>				
<i>Monochlorophenol</i>	N/A	0.0001 mg/L	ENV 1997a	No change
<i>2,4-dichlorophenol</i>	0.9 mg/L	0.003 mg/L	Health Canada 1987b	No change
<i>Total Dichlorophenols</i>	N/A	0.0003 mg/L	ENV 1997a	No change
<i>2,4,6-trichlorophenol</i>	0.005 mg/L	0.002 mg/L	Health Canada 1987b	No change
<i>Total Trichlorophenols</i>	N/A	0.002 mg/L	ENV 1997a	No change
<i>2,3,4,6-tetrachlorophenol</i>	0.1 mg/L	0.001 mg/L	Health Canada 1987b	No change
<i>Total Tetrachlorophenols</i>	N/A	0.001 mg/L	ENV 1997a	No change
<i>Pentachlorophenol</i>	0.06 mg/L	0.03 mg/L	Health Canada 1987b	No change
Colour, True	N/A	15 TCU	Health Canada 1979a	No change
Copper	N/A	1.0 mg/L	Health Canada 1992a	Increased from 0.5 mg/L
Cyanide	0.2 mg/L	N/A	Health Canada 1991	No change
Cyanobacterial Toxins: Microcystin-LR	0.0015 mg/L	N/A	Health Canada 2002	New for DW use in B.C.

Parameter <sup>1</sup>	Maximum Allowable Concentration (MAC)	Aesthetic Objective (AO)	Guideline Source	2017 Update
Diisopropanolamine (DIPA)	21 mg/L	N/A	ENV 2003b	No change
Ethylbenzene	0.14 mg/L	0.0016 mg/L	Health Canada 2014	MAC new for DW use in B.C. AO decreased from 0.0024 mg/L.
Fluoride	1.5 mg/L	N/A	Health Canada 2010a	No change
Iron	N/A	0.3 mg/L	Health Canada 1978	New for DW use in B.C.
Lead	0.01 mg/L	N/A	Health Canada 1992b	Decreased from 0.05 mg/L
Manganese	N/A	0.05 mg/L	Health Canada 1987c	New for DW use in B.C.
Mercury	0.001 mg/L	N/A	Health Canada 1986b	No change
Methyl Tertiary-Butyl Ether	N/A	0.015 mg/L	Health Canada 2006b	Decreased from 0.02 mg/L
<b>Microbial Indicators:</b>				
Fecal coliforms	≤ 10 coliforms/100 mL; 90 <sup>th</sup> percentile (minimum of 5 samples)	N/A	ENV 1988	No change
<i>Escherichia coli</i>	≤ 10 <i>E. coli</i> /100 mL; 90 <sup>th</sup> percentile (minimum of 5 samples)	N/A	ENV 1988	No change
Enterococci	≤ 3 Enterococci/100 mL; 90 <sup>th</sup> percentile (minimum of 5 samples)	N/A	ENV 1988	No change
Molybdenum	0.25 mg/L	N/A	ENV 1986	No change
Nitrate	45 mg/L (nitrate) 10 mg/L (nitrate-N)	N/A	Health Canada 2013b	No change
Nitrite	3.0 mg/L (nitrite) 1.0 mg/L (nitrite-N)	N/A	Health Canada 2013b	No change
Organic Carbon, Total	4.0 mg/L	N/A	ENV 1998	No change
Phosphorus, Total	N/A	0.01 mg/L (lakes)	ENV 1985	No change
Selenium	0.01 mg/L	N/A	ENV 2014	No change

Parameter <sup>1</sup>	Maximum Allowable Concentration (MAC)	Aesthetic Objective (AO)	Guideline Source	2017 Update
Sulfolane	0.27 mg/L	N/A	ENV 2003c	No change
Sulphate	N/A	500 mg/L	Health Canada 1994	No change
Temperature	N/A	15°C	Health Canada 1979b	No change
Toluene	0.06 mg/L	0.024 mg/L	Health Canada 2014	New MAC for DW use in B.C.
Turbidity	See Table 2	N/A	ENV 1997b	No change
Xylenes, Total	0.09 mg/L	0.02 mg/L	Health Canada 2014	New for DW use in B.C.
Zinc	N/A	5.0 mg/L	Health Canada 1979c	No change

<sup>1</sup> Metal guidelines are based on **total** concentrations

Table 2. B.C. source drinking water quality guidelines for turbidity (ENV 1997b).

Background Turbidity <sup>†</sup>	Guideline
Raw drinking water with treatment for particulates	Change from background <sup>†</sup> of 5 NTU at any time when background is ≤ 50 NTU; Change from background of 10% when background is > 50 NTU.
Raw drinking water without treatment for particulates	Change from background <sup>†</sup> of 1 NTU at any time when background is ≤ 5 NTU; Change from background of 5 NTU at any time.
Natural background turbidity is > 50 NTU	Induced <sup>*</sup> turbidity should not exceed 10% of the background turbidity.

<sup>†</sup>There are operational and per-operational background levels. Operational background levels are based on comparisons to levels measured at upstream control sites. Per-operational background levels are based on historical background levels (ENV 1997b).

\*Induced turbidity results in an increase in turbidity from human (swimming, runoff, erosion or effects from forestry, agriculture and/or other development activities), natural (rainstorm) or biological (phytoplankton growth) causes.